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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

09/30/2010

NUTTER MCCLENNEN & FISH LLP SEAPORT WEST 155 SEAPORT BOULEVARD BOSTON, MA 02210-2604 EXAMINER

COMSTOCK, DAVID C

ART UNIT PAPER NUMBER

3733

DATE MAILED: 09/30/2010

۱	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/708,919	03/31/2004	Mark C. Boomer	101896-0241	2918

TITLE OF INVENTION: ADJUSTABLE-ANGLE SPINAL FIXATION ELEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence includired below or directed oth	g the Patent, advance or	rders and notification of n	naintenance fees wi	Il be mailed to the curr	of should be completed where ent correspondence address as separate "FEE ADDRESS" for	
	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Note Fee pape	e: A certificate of n s) Transmittal. This ers. Each additional	nailing can only be used certificate cannot be used paper, such as an assign of mailing or transmission	I for domestic mailings of the d for any other accompanying ment or formal drawing, must n.	
SEAPORT WES 155 SEAPORT	BOULEVARD		I he	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Uni States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsin transmitted to the USPTO (571) 273-2885, on the date indicated below.			
BOSTON, MA	02210-2604					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO	. CONFIRMATION NO.	
10/708,919	03/31/2004		Mark C. Boomer		101896-0241	2918	
TITLE OF INVENTION	; ADJUSTABLE-ANGL	E SPINAL FIXATION	ELEMENT				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) D	UE DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/30/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
COMSTOCE	K, DAVID C	3733	606-061000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 12 or more recent) attach ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	nge of Correspondence ' Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or type data will appear on the part of the	3 registered patent vely, e firm (having as a rigent) and the name: rneys or agents. If no printed. e) atent. If an assigned assignment.	attorneys 1	e document has been filed for	
Please check the appropr 4a. The following fee(s): Issue Fee Publication Fee (N	iate assignee category or	4lpermitted)	cinted on the patent): D. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car	Individual Corse first reapply any	poration or other private previously paid issue for its attached. ethe required fee(s), any		
• •	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long	ger claiming SMAL	L ENTITY status. See 37		
interest as shown by the	records of the United Sta	tes Patent and Trademark	COffice.		, , ,		
Typed or printed name			Registration No.				
	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC			_		and by the USPTO to process) ding gathering, preparing, and ime you require to complete bepartment of Commerce, P.O. ter for Patents, P.O. Box 1450,	

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10/708,919	03/31/2004	Mark C. Boomer	101896-0241	2918
21125 75	590 09/30/2010		EXAM	INER
NUTTER MCCI	LENNEN & FISH LL	COMSTOCE	K, DAVID C	
SEAPORT WEST		ART UNIT	PAPER NUMBER	
155 SEAPORT BOULEVARD BOSTON, MA 02210-2604			3733 DATE MAILED; 09/30/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 148 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 148 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/708,919	BOOMER ET AL.			
Notice of Allowability	Examiner	Art Unit			
	DAVID COMSTOCK	3733			
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included n will be mailed in due course. THIS o withdrawal from issue at the initiative			
2. X The allowed claim(s) is/are 1,2,7-10,13-20,42,43 and 46-5	<u>:0</u> .				
 Acknowledgment is made of a claim for foreign priority unally all blooms. All blooms are completed copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) I hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	 5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 	(PTO-413),			
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 17 September 2010 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	7. 🛛 Examiner's Amendr	ment/Comment ent of Reasons for Allowance			
/David Comstock/ Examiner, Art Unit 3733	/Eduardo C. Robert/ Supervisory Patent Exa	aminer, Art Unit 3733			

EXAMINER'S AMENDMENT

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lisa Adams on 05 May 2010.

The application has been amended as follows:

Claim 1, line 12, after "biocompatible, ", --internally-- has been inserted.

Claim 42, line 12, after "biocompatible, " --internally-- has been inserted.

Claim 43, line 10, after "anchor", --internally-- has been inserted.

Claim 46, line 10, after "biocompatible, ", --internally-- has been inserted.

The following is an examiner's statement of reasons for allowance: In the interview on 05 May 2010, Applicant agreed to further specify that the spinal fixation rod and spinal anchor are internally implantable. It was agreed in the interview that the device of Lai (a bicycle handlebar) would not be considered to be internally implantable by a person of ordinary skill in the art. The material of Lai is not disclosed, but even if it were made of titanium alloy, or the like (as taught by Carden), there is no evidence that such an alloy would be implantable (see, e.g., Applicant's arguments filed 04 November 2009, page 10, lines 15-25). It was also noted that the offset or bent shape of the bicycle handlebar of Lai is not capable of extending in a generally straight or slightly curved manner, so as to even be capable of following or properly supporting the contour

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of a human spine. The handlebar of Lai would also not be suitable for internal implantation for spinal fixation because of its size and shape and the potential for injury and irritation of the spine and surrounding anatomy (see, e.g., specification paragraphs 0002-0005, 0030, and 0041). In addition, the device of Lai lacks a spinal anchor implantable into bone. If one considers screws 26 to be the spinal fixation anchor, two problems arise. First, the screws are machine screws that are designed to engage a fine pitch thread in mating metal structure. Second, even if the threads were capable of engaging bone, they are screwed into blind threaded holes in the bicycle neck and could not function as spinal anchors implantable in bone while mating to the elongate member as claimed. Accordingly, for these reasons, it was agreed that the claims are not anticipated nor rendered obvious by Lai and/or Carden. As this is the closest known prior art, and it still does not anticipate or render obvious the claimed invention, the claims have been allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Comstock whose telephone number is (571) 272-4710 (a detailed message should be left if Examiner is unavailable). If attempts to reach the Examiner by telephone or voicemail are unsuccessful, the examiner's

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supervisor, Eduardo Robert, can be reached at (571) 272-4719. The fax phone number

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for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/David Comstock/

Examiner, Art Unit 3733

/Eduardo C. Robert/

Supervisory Patent Examiner, Art Unit 3733